

REMARKS

The indication by the Examiner that claims 10 and 11 are allowed and that claims 2 - 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, is acknowledged.

By the present amendment, minor informalities in the specification have been corrected, claim 1, which is the only claim under rejection has been canceled without prejudice or disclaimer of the subject matter thereof, and claim 2 has been rewritten in independent form including all of the limitations of the parent claim 1 therein, such that claim 2 should now be in condition for allowance. Since claims 3 - 9 depend directly or indirectly from claim 2, claims 2 - 9 should now be in condition for allowance, together with allowed claims 10 and 11 of this application.

Furthermore, by the present amendment, new independent claim 12 and dependent claims 13 - 18 have been presented. Claim 12 defines the feature that the controller controls an electrical angular frequency of the AC motor based on the inverter current, for example, in connection with the second embodiment of the present invention as illustrated in Fig. 8 and, as described at page 13, line 5 et. seq. of the specification. As indicated therein, a filter 15 filters the output of the current sampler 9 and a compensator 16 provides a value of $\Delta\omega_1$ on the basis of the output of the filter 15 which is added to an electrical angular frequency command ω_1^* of the motor which is utilized in the manner indicated for controlling the drive of the AC motor. In this manner, control is affected by estimating rotor position of the AC motor in accordance with the inverter current without utilizing a rotator position sensor of the AC motor. Dependent claims 13 - 18 recite further features of the controller as well as of the AC motor, as described at page 5, lines 9 - 13 of the

specification. Thus, it is readily apparent that the newly submitted claims are supported by the original disclosure of this application.

As to the rejection of claim 1 under 35 USC 103(a) as being unpatentable over Ohmura et al US #6,556,458 and Sakai US# 6,556,464, this rejection is considered to be obviated by the cancellation of claim 1, it being recognized that the Examiner has acknowledged the allowability of claims 2 - 11 with respect to the aforementioned cited art. Thus, discussion of the cited art in relation to claim 1 is considered unnecessary.

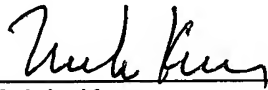
With respect to newly added independent claim 12 and its dependent claims, applicants note that the patent to Ohmura et al discloses the utilization of a position sensor 23 for control purposes and does not disclose or teach a controller which controls an electrical angular frequency of the AC motor based on the inverter current, which is detected by the current-detecting means, in the manner recited in claim 12. As to Sakai, this patent is directed to a single-phase PWM converter system for controlling a load and discloses a current detector, but does not disclose or teach a controller which controls an electrical angular frequency of the AC motor based on the inverter current nor the other features as recited in dependent claims 13 - 18 with the resultant combination of Ohmura et al and Sakai et al further resulting in the utilization of a position sensor. Thus, applicants submit that newly submitted claims 12 - 18 also patentably distinguish over the cited art and should be considered allowable thereover.

In view of the above amendments and remarks, applicants submit that all claims present in this application should now be in condition for allowance and issuance of an action of favorable nature is courteously solicited.

To the extent necessary, applicants petition for an extension of time under 37 CFR 1.136. Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus, LLP, Deposit Account No. 01-2135 (Case: 500.43498X00), and please credit any excess fees to such deposit account.

Respectfully submitted,

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